



Upcoming Events

Looking for more opportunities to participate in 4-H at the state level?! Check out our upcoming programs! From leadership and personal development to science and natural resources, we have you covered!

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Monthly Activity Idea



Email Ashley (taberp@clemson.edu) if you have an activity lesson you would like to share or pictures of previous lessons in action!

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Volunteer Conference of Southern States (VCOSS)

Rock Eagle 4-H Center, Eatonton, GA

October 6-9, 2016

Despite Hurricane Matthew threatening our coast, South Carolina still had representatives at the Volunteer Conference of Southern States! A great time was had by all participants as they engaged in interactive workshops, learned about each other and themselves, and gained valuable skills to help them in their 4-H clubs back home. More information can be found at vcoss.weebly.com.

Mark your calendars for next year and make plans to join us!!!

September 28 – October 1, 2017



Scenes from the 2016 VCOSS, including the Southern Region 4-H Volunteer Advisory Group featuring Mrs. Betty Osgood, Charleston County 4-H Volunteer (7th from left). *Image Credit: VCOSS*

Promoting South Carolina at North American Livestock Expo

Louisville, KY

November 5 & 15, 2016

Eastern National Horse Roundup

Congratulations to Wilson Pressley who placed Reserve Grand Champion in the Horse Presentation Contest. His speech was entitled "Prance with a Second Chance"; a presentation on equine prosthetics. Wilson earned the opportunity to compete on a national stage after winning first place in the Southern Region 4-H Horse Presentation Competition in Perry, GA in August. Wilson is a member of the Greenville County 4-H and serves as State Teen Council Vice President.



South Carolina 4-H youth wins Reserve Grand Champion at 2016 Eastern National 4-H Horse Roundup. Pictured left: Katie Shaw, Statewide Horse Program Assistant (left), and Wilson Pressley (right). Pictured right: Top 10 winners. Image Credit: South Carolina 4-H Horse Program

National 4-H Livestock Judging Contest

"Congratulations" goes out to the Saluda County 4-H Livestock Judging Team that represented South Carolina at the National Livestock Judging Contest in Louisville. They earned this honor by winning first place at the state competition last spring. The team members are Allison Harmon, Colden Harmon, Lindsey Scott and Allen Gunter, coached by Travis Mitchell, Area Livestock and Forages Agent.



South Carolina 4-H youth travel to Louisville to compete in the National 4-H Livestock Judging Contest. From left to right: Lindsey Scott, Allen Gunter, Allison Harmon, and Colden Harmon. Image Credit: Travis Mitchell, Area Livestock and Forages Agent.

30th Annual Junior Beef Round-up

Pendleton, SC
August 5-7, 2016

by Meghan Wood, SC 4-H Asst. Dir. and Livestock Coordinator

The 30th annual SC Junior Beef Round-Up proved to be another hot, yet successful event at the T. Ed Garrison Arena on Aug. 5-7. Clemson Cooperative Extension coordinated the weekend of youth and beef cattle activities for 4-H and FFA members from all over the Southeast. With more than 165 youth and nearly 300 head of cattle, the Junior Beef Round-Up kicked off its celebratory weekend with a fitting clinic and sales talk competition for exhibitors who were honing not only their fitting skills but also their public speaking and marketing skills. The event continued Saturday morning with the traditional Cattlemen's Contest. Youth were required to identify feed samples, beef cattle breeds and showcase their general knowledge of the beef industry with more than 100 multiple choice questions in order to compete for awards and scholarships. The winners received more than \$8,500 in prizes and scholarships.

Ten junior cattlemen were awarded college scholarships totaling more than \$7,500. The South Carolina winners were:

- SC Autism Scholarship: *Connor Durham*
- Anderson County Cattlemen's Scholarship: *Kade Smith*
- Greenwood County Farm Bureau Cash Award: *Brook Shealy*
- Coca-Cola & T. Ed Garrison Arena Scholarship: *Lucas Latham*
- SC Association of Ag Agents Scholarship: *Tara Jenkins*
- Steve & Andrea Meadows Hereford Scholarship: *Sarah Shore*
- Nationwide Insurance Scholarship: *Caitlin Griffin*

Scholarship winners from out of state were:

- AgSouth Farm Credit Cash Award: *Cameron Catrett of Alabama*
- Olson Cattle Research Scholarship: *Aaron Lay of Tennessee*
- Ashton Bray Memorial Scholarship: *Emily Ivey of Tennessee*



Winners of the card *Art* contests

Thank you to everyone who submitted artwork for this year's **Holiday Card & Thank You Card Art Contests!!!** We are overwhelmed by the quality and quantity of entries. Congratulations to the selected artists!

Thank You Card

Cloverbud winner:
Nora Beth Storey,
Laurens County

Junior winner:
Madison Parker,
Marlboro County

Holiday Card

Cloverbud winner:
Nora Beth Storey,
Laurens County

Junior winner:
Owen Leamey,
Pickens County





4-H invites South Carolina youth to explore drones during month of October

Shannan Bloomstrand, '17, Language and International Health
October 12, 2016

CLEMSON — Youth across South Carolina are invited by 4-H to join approximately 100,000 of their peers worldwide in Drone Discovery month.



Chester County 4-H Council and Youth Science Team training for Drone Discovery events. *Image Credit: Robin Currence, Chester County 4-H Agent*

Drone Discovery introduces young people to the burgeoning field of drones in a hands-on, interactive design challenge. With more than 16 registered events, 1,085 participants and 92 volunteers, Drone Discovery will have a strong presence in South Carolina. Youth will conduct the Drone Discovery challenge throughout the month of October at various locations from the Upstate to the coast. Drone Discovery will teach a wide variety of topics related to unmanned flight including flight dynamics, aircraft types, safety and regulations, remote sensing and flight control. Created by Cornell University Cooperative Extension, the hands-on, three-part engineering design challenge will allow participants to experiment with fixed and rotary wing designs, explore the concept of remote-sensing and dive into the world of coding for real-world drone applications. “Drones have a way of captivating young people. They learn important design concepts, problem-solving skills, and teamwork all while having fun,” said Ashley Burns, assistant director 4-H youth development in South Carolina.

In addition to individual events across the state, Drone Discovery will be featured at the 4-H exhibit at the South Carolina State Fair through Oct. 23.

South Carolina has played a prominent role in the 4-H National Youth Development Program since it became officially recognized in the 1920s with more than 90,000 youth enrolled last year and 66,273 youth specifically engaged in science, engineering and technology activities. South Carolina 4-H offers clubs, after school programs, special interest & short-term programs, school enrichment programs, and camping expeditions. They look to help K-12 youth develop valuable skills such as communication, organization, decision-making and self-confidence.

Even youth who are not part of 4-H can participate. Additional information can be found at www.4-h.com/nysd, including information on how to register and get involved. Engineering design challenge kits are available for sale at www.4-HMall.org/nysd. Each kit comes equipped with all the materials necessary for 10 youth to complete the challenge, including instruction booklets for both youth and adult facilitators. Drone Discovery national partners are HughesNet, Lockheed Martin and U.S. Cellular. DJI, the world's largest maker of consumer drones, is the national sponsor.

Contact: Ashley Burns, Assistant Director 4-H



**4-H
NATIONAL
YOUTH
SCIENCE DAY**

**DRONE
DISCOVERY**



2017 Miss SC 4-H Pageant Registration

This event is held annually in Laurens County. This year's event will be held at Clinton High School. This is not a beauty pageant! Contestants are score on stage presentence, appropriate attire and public speaking skills. Pageant contestant must be females ages 5 to 19 years old based on their age on the day of the contest. Males ages 5 to 19 years old may participate by registering to serve as a pageant escort. The event is divided into to parts:

COST

Early Bird Registration \$20 (Deadline Dec. 14)

Registration \$30 (Deadline Dec. 30)

CONTACT NAME:

Katie Shaw, Laurens County 4-H Agent

CONTACT PHONE:

CONTACT EMAIL:

864-984-2514 ext. 113 Berry7@clemson.edu

Upcoming Dates & Deadlines



12.21.2016

Registration deadline for Miss 4-H Pageant

1.17-21.2017

CWF: Presidential Inauguration Trip – Washington D.C.

1.21.2017

Miss 4-H Pageant – Clinton, SC

1.25.2017

Registration Deadline for Junior 4-H Weekend

1.27-29.2017

Healthy Lifestyles Summit – Columbia, SC

2.3.2017

Registration Deadline for Honey Bee Project

2.6.2017

Postmark Deadline for Hippology & Horse Bowl Registrations

2.10-12.2017

Junior 4-H Weekend – Summerton, SC

2.15.2017

Registration Deadline for Dairy Heifer Project

2.18-19.2017

4-H Hippology & Horse Bowl Contests – Clemson, SC

3.1.2017

Registration Deadline for SC 4-H Engineering Challenge

3.3-5.2017

Senior Teen Weekend – Summerton, SC
State 4-H/FFA Dairy Contests – Pendleton, SC

3.8.2017

Sponsorships due for 4-H Sporting Clays Tournament

3.10-12.2017

State 4-H Forestry Clinic – Garnett, SC

3.14.2017

State 4-H Legislative Day - Columbia, SC

3.15.2017

Postmark Deadline for State 4-H Horse Show Forms

3.18.2017

4-H Sporting Clays Tournament Fundraiser – Edgefield, SC

NOTICE! 
WILD WILD WEST
JUNIOR WEEKEND
February 10-12, 2017
at Camp Bob Cooper in Summerton, SC 29142
Cost is \$100



THE 2017 SOUTH CAROLINA
**4-H ENGINEERING
CHALLENGE**

Sponsored by

enLIGHTenSC™
Energy-focused education

Saturday, March 25, 2017
Orangeburg-Calhoun Technical College

LEARN MORE AT
scionthemove.org/engineeringchallenge

An opportunity for students ages 9-19 to learn, have fun, demonstrate their science, technology, and math skills, and compete for individual and team honors.

South Carolina 4-H Sporting Clays Tournament

Saturday, March 18, 2017

NWTF Palmetto Shooting
Complex, Edgefield, SC

For more information, a registration form
or sponsorship opportunities,
www.clemson.edu/4h
or e-mail SC4H@clemson.edu



Science in Ag Day at Edisto REC highlights Drones!

Blackville, SC

November 10, 2016

By Shannon Herndon, Bamberg and Barnwell County 4-H Agent

A great time was had by all at the 2016 Science in Ag Day held at Edisto Research and Education Center. Third grade students from Richard Carroll Elementary School participated in 4 rotations of educational programs: 1.) Science and Technology (featuring drones), 2.) Soil Science, 3.) Agricultural Products, and 4.) Ag Mechanization. Doctoral Candidate Phillip Williams, working under the leadership of Dr. Joe Maja, Research Sensor Engineer, explained how drones are controlled and can benefit agriculture. He also conducted a flyover demonstration. Ag students, taught by Mindy Sandifer at Barnwell County Career Center, did a fantastic job teaching third graders about agriculture! Dawn Stuckey, Colleton and Hampton County 4-H Agent, taught students how drones help farmers with precision agriculture with South Carolina 4-H's "Hone your Drone" science program. Over 4,600 first-fourth graders have participated in Ag programs at the REC since 2000. Shannon Herndon, Bamberg and Barnwell County 4-H Agent, coordinates the event annually.



Scenes from the 2016 Science in Ag Day at Edisto REC. Left: Learning where our food comes from. Top right: Phillip Williams demonstrating drone usage. Bottom right: Building soil profiles. *Image Credit: Shannon Herndon, Bamberg & Barnwell Co. 4-H Agent*

Berkeley Electrical Cooperative Annual Meeting

Ladson, SC

November 10, 2016

By Robin Currence, Chester County 4-H Agent, and Katie Burch, Science on the Move Coordinator

The Berkeley Electrical Cooperative held its Annual Meeting in November and invited 4-H and Science on the Move to participate with an interactive exhibit featuring Drone Discovery! The Berkeley Electrical Cooperative is a sponsor of 4-H Science on the Move. The Midlands 4-H Youth Science Team showcased their STEM knowledge through this outreach and worked with over 300 families who attended the event!



Midlands 4-H youth lead by example, teaching others about 4-H and STEM careers. Clockwise from top left: Bentley Pressley, Jesse Bland, Wilson Pressley. *Image Credit: Robin Currence, Chester County 4-H Agent*

Partnership with Spartanburg Humane Society!

Spartanburg, SC

By Ginger Bowen, Spartanburg County 4-H Agent

Just as the school year and 4-H club year kicked off in September, Spartanburg County started its year with thirteen 4-H Pet Pal Clubs! These clubs are led by a group of 4 dedicated 4-H volunteers and at least 1 school teacher for each club. A new 4-H Pet Pal Club Kit was supplied to each club. Although the Spartanburg Humane Society has partnered with 4-H to conduct these clubs for several years, this year, the director of the humane society redesigned 4-H Pet Pal Club Kit Boxes with their logo and our 4-H logo and purchased them for all the clubs!

An additional, educational resource for these clubs, the Companion Animal Anatomy: A Photo Atlas, was provided to 4-H volunteers working with these groups by Dr. Heather Dunn of Clemson University's Animal and Veterinary Sciences Department. If you are interested in this photo atlas, contact Ashley Burns (or, you can purchase it on Amazon.com).

A big "Thank YOU" goes out to our 4-H volunteers, Spartanburg Humane Society partner, and Dr. Dunn.



Top: New 4-H Pet Pal Boxes supplied by Spartanburg Humane Society. Bottom: Scenes from 4-H Pet Pal Club meetings. Image Credit: Ginger Bowen, Spartanburg County 4-H Agent

Companion Animal Anatomy A Photo Atlas



Heather W. Dunn

Thank you, 4-H volunteers, for all you do!

As always, we like to hear from you and how we can better enable you to work with youth. Also, if you would like share a success story or an innovative idea in this newsletter, please email taberp@clemson.edu.

Contact Us:

Pam Ardern

State 4-H Leader
Healthy Lifestyles Programs
pardern@clemson.edu

Lori Frager

Administrative Assistant
(864) 656-3848
lfrager@clemson.edu

Ashley Burns

Assistant Director 4-H
Volunteer Coordinator, Science & Nat. Res. Programs
taberp@clemson.edu

Meghan Wood

Assistant Director 4-H
Ambassador Coordinator, Livestock Programs
mlmcpha@clemson.edu

Georganne Kirven

State 4-H Specialist, Tech Wizards Program
gkirven@clemson.edu

Monthly 4-H Club Activity Idea *by T. Ashley Burns*

Glitter Germs

Objective: To gain an appreciation of how germs spread, what the risk factors are, and what you can do to protect yourself from getting sick this season.

Age Range: All ages. Works well for groups of 10-30 youth.

Hands-on Activity: Use glitter as a visual device to track how germs move in a population.

Life Skills: HEAD = keeping records, learning to learn;
HEART = concern for others, sharing;
HANDS = responsible citizenship;
HEALTH = self-discipline, healthy lifestyle choices, and disease prevention.



Introduction

It's the holiday season and, inevitably, the cold and flu season is back once again. Included in this newsletter are 2 activities you can use with your 4-H'ers to demonstrate how germs spread and what the risk factors are for contracting diseases.

Activity 1 - Getting

Materials needed:

- an adult or senior 4-H member to act as the observer
- a quantity of 'tokens' that can be given to 4-H'ers each time a risky behavior is observed (i.e. stickers, pennies, small pieces of paper)

For this activity to work, you need an adult or senior 4-H'er to unobtrusively observe 4-H members and give out tokens. (You can use multiple observers for a large group.) From the moment 4-H'ers arrive at the club meeting, the "observer" will scan the group and identify any behaviors that increase their risk of getting sick (i.e. touching public surfaces like doorknobs, doors, pens/pencils, etc. and shaking hands without washing their hands, touching their face, being in close proximity to a sick person, talking about being stressed out or not getting enough sleep, not covering their mouths when they sneeze/cough, etc.) For every incidence of risk, give that 4-H'er a 'token'. For instance, if little Johnny touches his face 10 times, borrows someone's pencil, and chews on his dirty fingernails, he should receive at least 12 tokens. As the observer gives out tokens, don't say what they are for or what they

mean; simply, continue giving tokens throughout the meeting until it is time for discussion. **If you are doing Activity 2 during the same meeting, we suggest discussing the tokens *after* you complete Activity 2.**

Discussion questions:

- *Did anyone figure out or have a guess what the tokens were for?*
- *Now that you know what the tokens represent, are you surprised by the number of tokens you received?*
- *What can you do differently to protect yourself (and friends/family) from germs?*
- *What can you do to share this information with others?*

Touching your face gives germs easy access to the inside of your body where they can make you sick!



According to a 2013 ABC News report, the average person touches their face about **18 times an hour**. And, in one 25-minute meeting, one person touched their face **44 times!**

Hands-on Activity: How to

Activity 2 – Spreading

Materials needed:

- small cups (opaque in appearance)
- plastic spoons
- solid glitter in at least 3-4 colors, including
- timer
- “Glitter Record Sheets”



*Recommended colors are silver, gold, blue, green, and red. One color, whether it's red or another color of your choosing, needs to stand out from the rest. The color that stands out will represent a transmittable virus.

Each 4-H'er receives a “Glitter Record Sheet”, a small cup containing about 1/8 cup of glitter, and a plastic spoon. Have youth record their original glitter color for question #1 on their record sheet. (Make sure 1 youth in the group has red glitter.)

For 1 minute, youth will mingle and swap 1 spoonful of glitter with as many people as they can. Instruct them to stir their glitter well after each swap, before sharing with the next person.

After 1 minute, youth will examine the different colors of glitter in their cup and record them. For anyone that has red glitter, give them an extra spoonful of pure red glitter. (This represents virus replication in a host, but you don't tell them that until the discussion!)

Have youth mingle and swap glitter for an additional 5 minutes and record their results.

Discussion questions:

- *How many people had red glitter after 1 round? After 2 rounds? (How strong is the concentration of red glitter in your cup?)*
- *Does anyone have an idea of what the red glitter represents? (transmission of a virus from one person to another)*
- *Now that you know what the red glitter means, what do you think the additional spoonful of red glitter some people received after the first minute represented? (replication of a virus in a host)*
- *What can you do to protect yourself from germs?*
- *(You can discuss Activity 1 here!!!)*



Keeping **hands clean** is one of the **most important** steps to avoid getting sick and spreading germs to others.



Did you know that not washing your hands before and during food preparation causes most foodborne illnesses?
Credit: Handwashing – It makes a Difference (HGIC fact sheet)

For more information on how you can stay healthy, visit the Center for Disease Control website (cdc.gov) or Clemson's Home and Garden Information Center (clemson.edu/hgic).

CLEMSON
COOPERATIVE EXTENSION

Home & Garden Information Center

Glitter Record Sheet

1.) What is your solid glitter color? _____ Name: _____

2.) After 1 minute, what glitter colors do you have? _____

3.) After 5 minutes, what glitter colors do you have? _____

4.) What did you learn from this activity? _____



Glitter Record Sheet

1.) What is your solid glitter color? _____ Name: _____

2.) After 1 minute, what glitter colors do you have? _____

3.) After 5 minutes, what glitter colors do you have? _____

4.) What did you learn from this activity? _____

